

OHIO

Science and Engineering Profile

	Ohio	U.S.	Rank		Ohio	U.S.	Rank
Doctoral scientists, 1993	14,727	430,332	9	Total R&D performance, 1993 (millions)	\$6,395	\$161,427	10
Doctoral engineers, 1993	3,888	81,293	5	Industry R&D, 1993 (millions)	\$5,144	\$117,622	8
S&E doctorates awarded, 1993	976	25,409	7	Academic R&D, 1993 (millions)	\$591	\$19,489	10
of which, in engineering	28%	22%		of which, in life sciences	52%	55%	
in life sciences	22%	24%		in engineering	26%	16%	
in physical sciences	19%	15%		in physical sciences	10%	11%	
S&E postdoctorates, 1993				Higher education current-fund			
in doctorate-granting institutions	1,023	34,394	10	expenditures, 1993 (millions)	\$6,086	\$163,994	7
S&E graduate students, 1993				Number of SBIR awards, 1990-93	352	13,995	11
in doctorate-granting institutions	22,023	438,128	5	Patents issued to state residents, 1994	2,594	56,039	8
Population, 1994 (000s)	11,102	260,341	7	Gross state product, 1992 (billions)	\$241.6	\$5,994.1	7
Civilian labor force, 1994 (000s)	5,537	131,013	7	of which, agriculture	1%	2%	
Personal income per capita, 1994	\$20,928	\$21,809	23	manufacturing, mining, construction	30%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures 1994 (millions)	\$48,023	\$1,284,896	7	wholesale and retail trade	16%	16%	
R&D obligations 1993 (millions)	\$1,922	\$65,394	13	finance, insurance, real estate	16%	18%	
				services	18%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Federal Obligations for Research and Development in Ohio by Agency and Performer: Fiscal Year 1993

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	1,921,720	583,033	0	952,372	303,385	77,075	5,855	13
Department of Agriculture	17,590	6,785	0	3	10,802	0	0	27
Department of Commerce	940	0	0	616	299	25	0	34
Department of Defense	1,077,047	287,688	0	716,223	51,576	21,560	0	9
Department of Energy	32,745	12,767	0	12,683	6,769	526	0	20
Dept. of Health & Human Services	234,886	11,828	0	8,239	172,294	41,215	1,310	11
Department of the Interior	5,586	4,367	0	0	994	0	225	34
Department of Transportation	12,758	7,145	0	933	974	762	2,944	9
Environmental Protection Agency	33,256	22,002	0	5,616	5,064	0	574	3
Nat'l Aeronautics & Space Admin.	473,860	230,451	0	207,296	22,460	12,851	802	6
National Science Foundation	33,052	0	0	763	32,153	136	0	19
State rank	13	7	na	11	10	9	10	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.